

IN THE CLAIMS

1. (Currently amended) A body-worn personal communications apparatus, comprising:
a physically-shortened electric antenna that is physically smaller than its electrical length;
a transceiver connected to said physically-shortened electric antenna;
a microphone connected to said transceiver; and
a casing,
wherein said transceiver is disposed within said casing,
wherein said physically-shortened electric antenna is mounted transversely to a plane through said casing,
wherein said physically-shortened electric antenna is inaccessible to a user.
2. (Currently amended) A body-worn personal communications apparatus, comprising:
a casing; and
a physically-shortened electric antenna mounted on said casing, said physically-shortened electric antenna being physically smaller than its electrical length;
wherein said physically-shortened electric antenna is a helical antenna;
wherein said physically-shortened electric antenna is inaccessible to a user.
3. (Previously presented) The apparatus of claim 1, wherein said physically-shortened electric antenna is a meander-line antenna.
4. (Canceled)
5. (Previously presented) The apparatus of claim 1, wherein said microphone is located at an end of said physically-shortened electric antenna furthest from said casing.
6. (Previously presented) The apparatus of claim 5, wherein said physically-shortened electric antenna is formed from a coaxial cable that provides electrical connections between said microphone and said transceiver.

7. (Previously presented) The apparatus of claim 5,

wherein said physically-shortened electric antenna is formed from a hollow wire,
wherein a first electrical connection between said microphone and said transceiver
is provided by said hollow wire, and

wherein a second electrical connection between said microphone and said
transceiver is provided by a conductor enclosed by said hollow wire.

8. (Previously presented) The apparatus of claim 6, wherein said microphone provides a
low impedance at radio frequencies to thereby enable said coaxial cable forming said
physically-shortened electric antenna to act as an inductive stub.

9. (Previously presented) The apparatus of claim 5, wherein said microphone provides a
top loading to said physically-shortened electric antenna.

10. (Currently amended) A body-worn personal communications apparatus, comprising:
a casing; and

a physically-shortened electric antenna mounted traversely to a plane through said
casing, wherein the physically-shortened electric antenna is physically smaller than its
electrical length,

wherein said physically-shortened electric antenna is inaccessible to a user.

11. (Previously presented) The apparatus of claim 10, wherein said physically-shortened
electric antenna is a helical antenna.

12. (Previously presented) The apparatus of claim 10, wherein said physically-shortened
electric antenna is a meander-line antenna.

13. (Canceled)

14. (Previously presented) The apparatus of claim 10, wherein said microphone is located at an end of said physically-shortened electric antenna furthest from said casing.

15. (Previously presented) The apparatus of claim 10, further comprising:

a transceiver,

wherein said physically-shortened electric antenna is formed from a coaxial cable that provides electrical connection between said microphone and said transceiver.

16. (Previously presented) The apparatus of claim 15, wherein said microphone provides a low impedance at radio frequencies to thereby enable said coaxial cable forming said physically-shortened electric antenna to act as an inductive stub.

17. (Previously presented) The apparatus of claim 10, further comprising:

a transceiver,

wherein said physically-shortened electric antenna is formed from a hollow wire,

wherein a first electrical connection between said microphone and said transceiver is provided by said hollow wire, and

wherein a second electrical connection between said microphone and said transceiver is provided by a conductor enclosed by said hollow wire.

18. (Previously presented) The apparatus of claim 10, wherein said microphone provides a top loading to said physically-shortened electric antenna.